CLAIMS

What is claimed is

1. ~~A method for configuring link drivers for at least one link device in a serial bus~~ device comprising:
   a) querying said link device for its capabilities;
   b) receiving said capabilities of said link device;
   c) generating link driver configuration for said link device from said capabilities of said link device; and
   d) communicating said link driver configuration to said link device, for configuration therein.

2. The method of claim 1, further comprising receiving user-defined configuration data for said link device before said generating link driver configuration, wherein said generating link driver configuration further uses said user-defined configuration data.

3. The method of claim 1, wherein said serial bus device is a IEEE Standard 1394 device.

4. A method for configuring link drivers for a plurality of link devices in a serial bus device comprising:
   a) querying each said link device for its capabilities;
   b) receiving said capabilities of each said link device;

c) generating link driver configuration for each said link device from said capabilities of each said link device; and

d) communicating corresponding link driver configuration to each said link device, for configuration therein.

5. The method of claim 4, further comprising receiving user-defined configuration data for each said link device before said generating link driver configuration, wherein said generating link driver configuration further uses said user-defined configuration data.

6. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for configuring link drivers for at least one link device in a serial bus device, said method comprising:

a) querying said link device for its capabilities;

b) receiving said capabilities of said link device;

c) generating link driver configuration for said link device from said capabilities of said link device; and

d) communicating said link driver configuration to said link device, for configuration therein.

7. The program storage device of claim 6, wherein said method further comprises receiving user-defined configuration data for said link device before said generating link driver configuration, wherein said generating link driver configuration further uses said user-defined configuration data.

8. An apparatus that supports multiple link driver device configuration comprising:

   a) a transaction layer software unit operating in a serial bus device; and

   b) at least one link layer service unit operatively coupled to said transaction layer software, said transaction layer software unit configured to ascertain capabilities of said link layer service unit and to provide link driver configuration for said link layer service unit based on said capabilities.

9. The apparatus of claim 8, wherein said transaction layer software unit is further configured to ascertain user-defined configuration data for said link layer service unit and to provide link driver configuration for said link layer service unit based on said capabilities and said user-defined configuration data.